

WALL AT FOOT OF SLOPE

FRONT ELEVATION

H = TOTAL HEIGHT OF ENDWALL

D = INSIDE DIAMETER OF PIPE

S = HEIGHT OF SLOPE ABOVE FLOW LINE AT FACE OF WALL-MINIMUM = D+2

L = LENGTH OF WALL= 3S+D

ALL EDGES OF EXPOSED SURFACES TO BE CHAMFERED APPROXIMATELY ONE INCH.

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL BASED ON S = D + 2"							
D	S	н	L	BATTER	В	VOL.	
INS.	FT.&INS.	FT.&INS.	FT.&INS.	INS./ FT.	FT.&INS.	CU.YD.	
12"	1"-2"	4'-6"	4'-6"	2 1/2"	1'-11 1/4"	1.10	
15"	1'-5''	4'-9"	5'-6"	2 1/2"	1'-11 1/8"	1.45	
18''	1'-8''	5'-0"	6'-6"	2 1/2"	2'-0 1/2"	1.83	
24"	2'-2"	5'-6"	8'-6"	2 1/2"	2'-1 3/4"	2.72	
30"	2'-8"	6'-0''	10'-6"	2 1/2"	2'-3"	3.79	
36"	3'-2"	6'-6"	12'-6"	3"	2'-71/2"	5.45	
42"	3'-8"	7'-0"	14'-6"	3"	2'-9"	6.40 ×	
48"	4'-2"	7'-6"	16'-6"	3"	2'-10 1/2"	8.00	

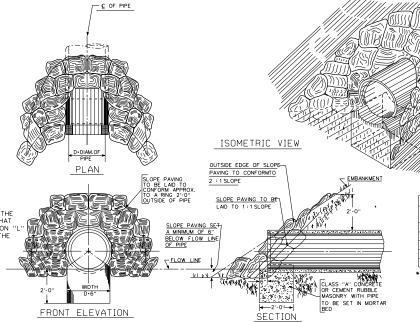
* VOLUME BASED ON 'D' AND WALL THICKNESS AT C OF PIPE HAS BEEN DEDUCTED

ALL CONSTRUCTION DIMENSIONSARE NOMINAL.

WHEN ONE ENDWALL IS TO BE USED FOR TWO PIPES, THE DIMENSIONS OF THAT ENDWALL SHALL CONFORM TO THAT REQUIRED FOR THE LARGER PIPE, EXCEPT THE DIMENSION SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS ONE FOOT.

C OF PIPE

THESE ENDWALLS WILL BE USED ONLY AT LOCATIONS WHERE THEY WILL NOT BE A HAZARD TO VEHICLES THAT RUN OFF THE ROAD. IN NO CASE WILL THE LOCATION OF THESE ENDWALLS BE LESS THAN 30' FROM THE EDGE OF THE TRAVELED WAY.

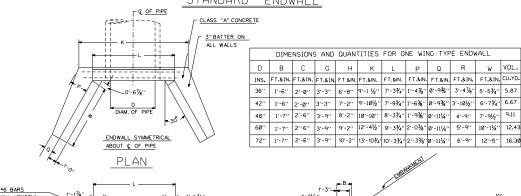


FOOTING & SLOPE PAVING FOR PIPES 15" TO 30" DIAMETER

TABLE WITH QUANTITIES VOLUME | SLOPE * FOOTING PAVING INS C.Y. S.Y. 0.26 0.30 3.5 0.37 4.0 30" 0.44 4.6

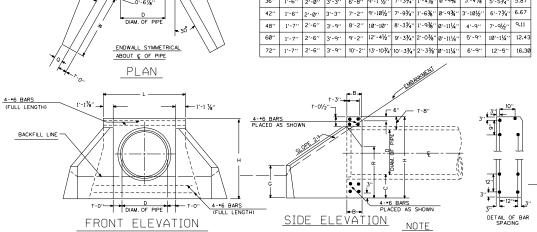
* APPROXIMATE QUANTITY FOR MINIMUM CONDITION

STANDARD ENDWALL



STANDARD WING TYPE ENDWALL

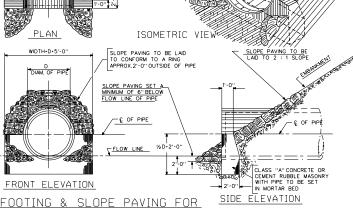
REINFORCEMENT TO BE PLACED FOR 48" PIPE AND UP.



COST OF REINFORCING BARS TO BE

INCLUDED IN THE CONTRACT UNIT

PRICE FOR CLASS "A" CONCRETE.



PIPES 36" TO 72" DIAMETER

TABL	ANTITIES	
D	VOLUME OF FOOTING	SLOPE * PAVING
INS	C.Y.	S.Y.
36"	1.55	4.7
42"	1.69	5.4
48"	1.82	6.1
60	2.08	7.6
72"	2.34	9.3

* APPROXIMATE QUANTITY FOR MINIMUM CONDITION

MANUAL REVISIONS TO TH DOCUMENT ARE PROHIBITED ALL REVISIONS MUST BE PERFORMED ON



ENDWALLS, SLOPE PAVED INLETSAND OUTLETS

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